

## M 5.7, 54 km NNE of Miyako, Japan

Origin Time: 2021-10-05 17:46:02 UTC (Wed 02:46:02 local)

Location: 40.0760° N 142.2531° E Depth: 44.8 km

Created: 1 day, 0 hours after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



### Estimated Economic Losses

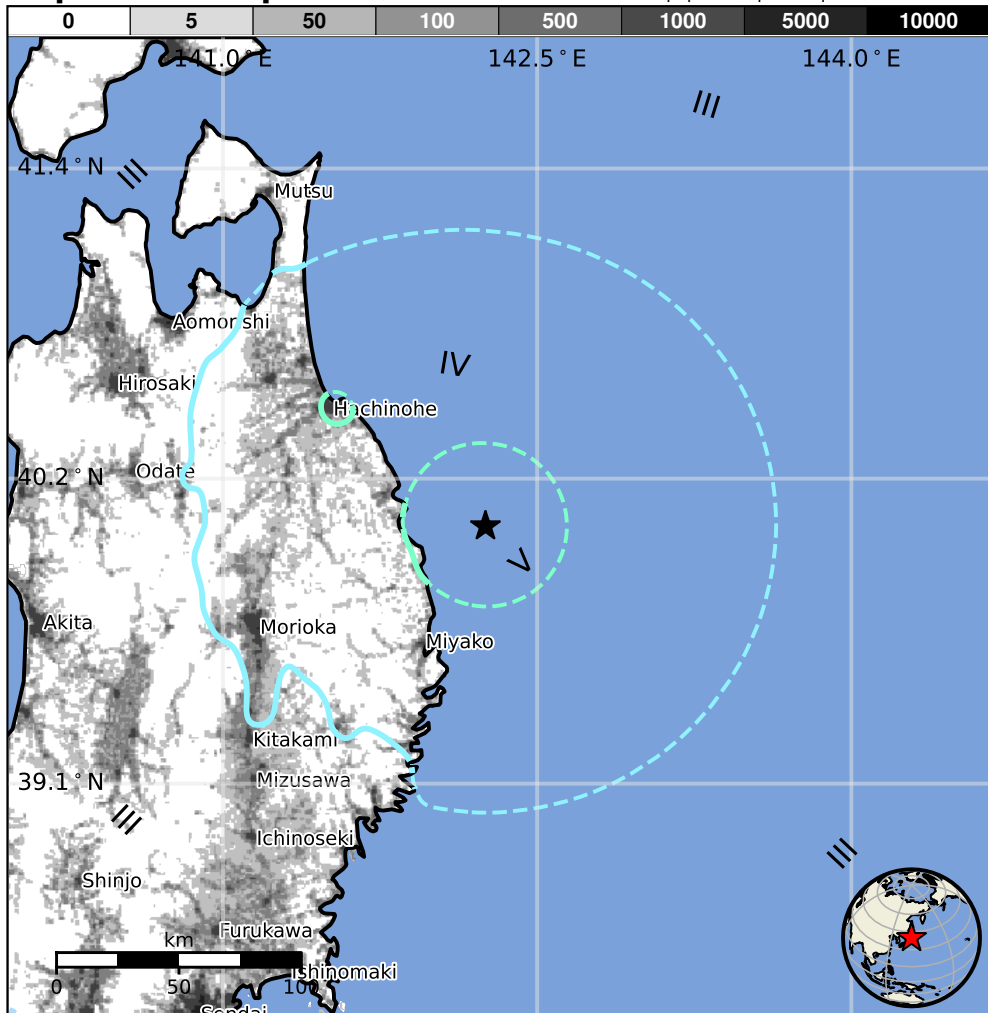


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	4,573k*	1,255k	210k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1994-12-28	112	7.7	VII(130k)	3
1993-01-15	365	7.6	VIII(461k)	2
1983-05-26	271	7.7	VII(174k)	104

Recent earthquakes in this area have caused secondary hazards such as landslides and fires that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Hachinohe	239k
V	Uchimar	<1k
IV	Furudate	<1k
IV	Inuotose	<1k
IV	Misawa	43k
IV	Miyako	52k
IV	Morioka	295k
III	Aomori	298k
III	Akita	326k
III	Akita	320k
III	Sendai	1,063k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000frzg#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000frzg